

International Forum for Cotton Promotion Session

Educational Steps in Cotton Technology: from fiber to clothing

**Evolution of products, industries and training
facilities for the cotton industry' future**

Buenos Aires, Argentina
September 7, 2011



Jean-Paul GOURLOT
UPR 102, LTC



Introduction

Question from Jeffrey Silberman:

“We always focus on people in industry, but what about those who are the industry's future?”



Introduction

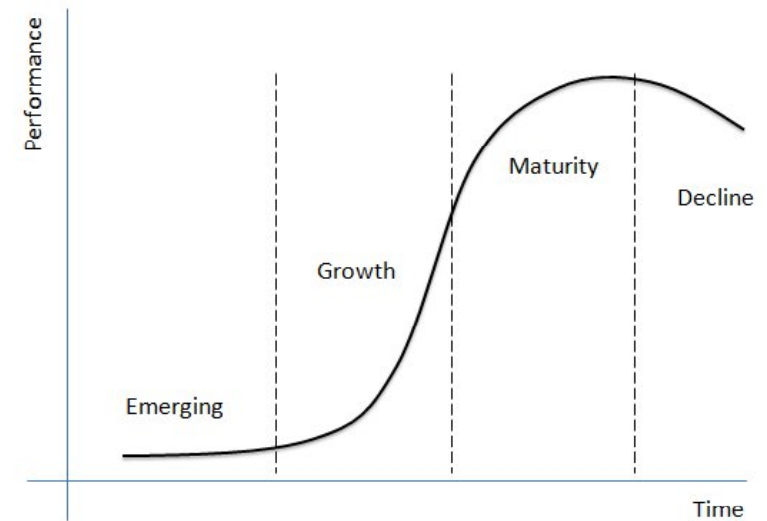
To answer this question, at least we have to look after

- How much evolution in the products can be observe on the period
- How are organized the industries
- What are the relationships between industries
- What are the actual training / teaching possibilities
- What will be their evolution along the period

➔ To draw some conclusions

Introduction

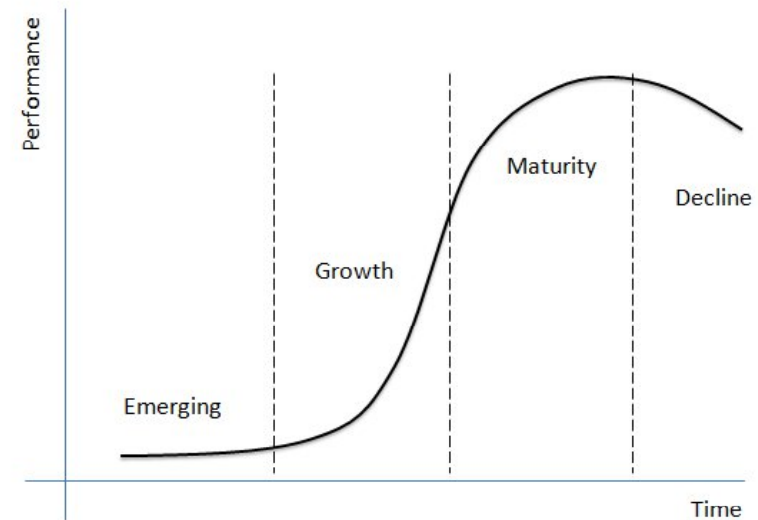
Life cycles of goods on the market depending on the products



<http://newsletter.terasigma.com/2011/04/technology-life-cycle.html>

Life cycles of goods on the market depending on the products

- For technology products, life cycle is shorter on very dynamic markets
- For leisure products, life cycle is longer on dynamic markets
- For housing, clothing and confort markets, life cycle is sometimes longer and the markets are stable

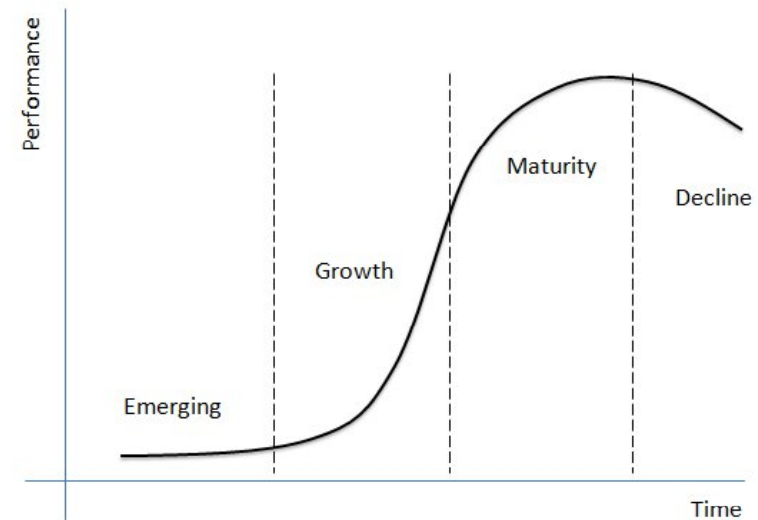


<http://newsletter.terasigma.com/2011/04/technology-life-cycle.html>

Source : Un Panorama des
Grandes Surfaces
Spécialisées en France
Étude réalisée pour la
DECAS
Décembre 2000
RHODE

Life cycles of goods on the market depending on the products

- For technology products, life cycle is shorter on very dynamic markets
- For leisure products, life cycle is longer on dynamic markets
- For housing, clothing and confort markets, life cycle is sometimes longer and the markets are stable

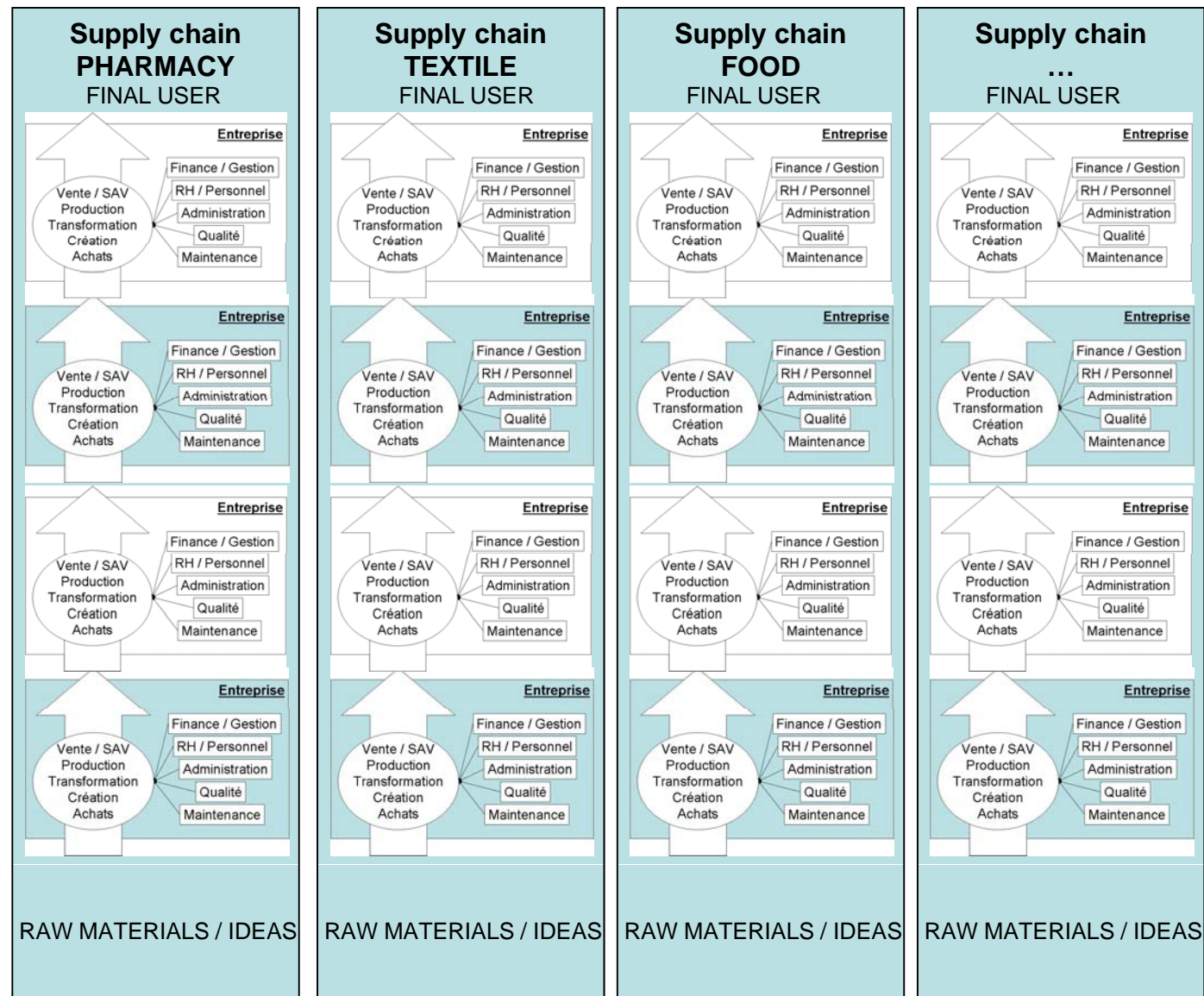


<http://newsletter.terasigma.com/2011/04/technology-life-cycle.html>

**Textile is on the latest market
Permanent evolution however**

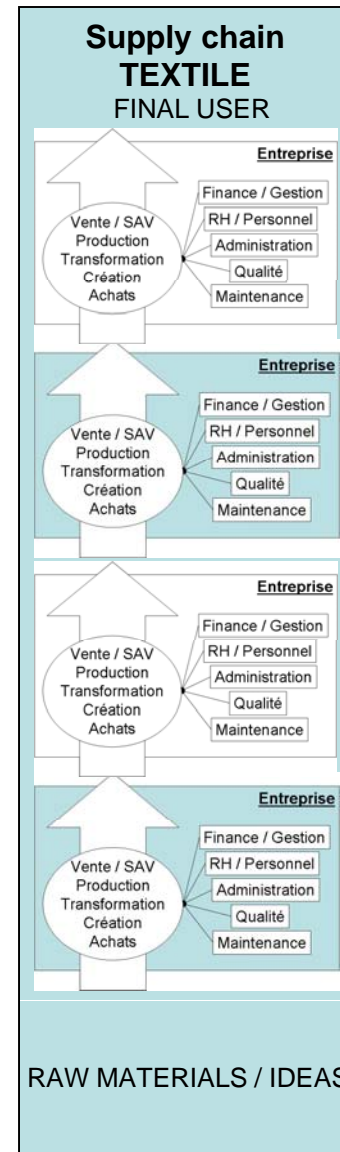
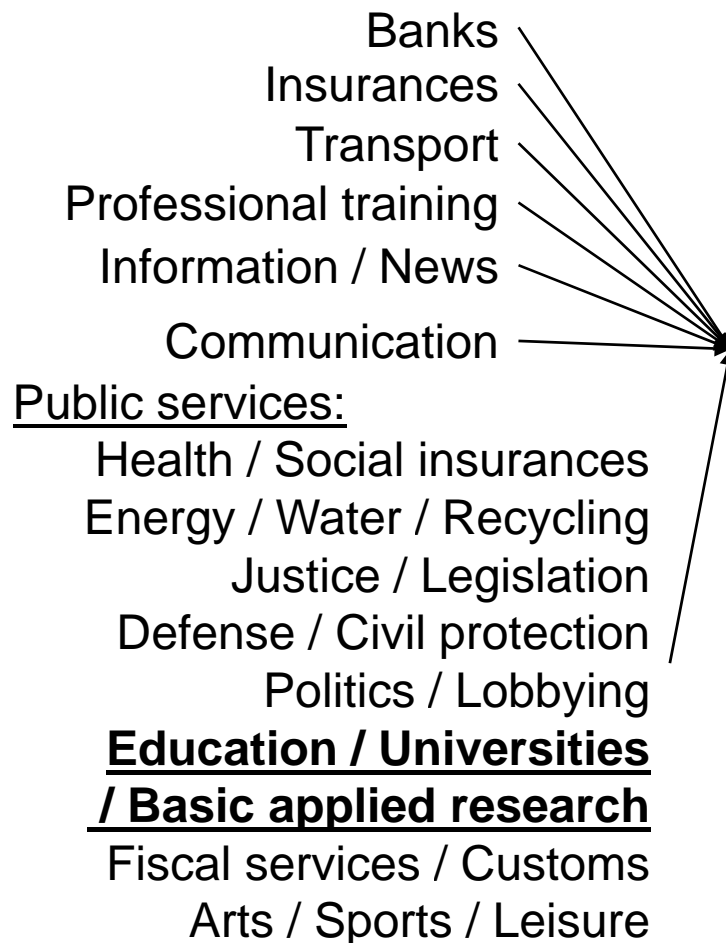
Source : Un Panorama des
Grandes Surfaces
Spécialisées en France
Étude réalisée pour la
DECAS
Décembre 2000
RHODE

Various supply chains





Supply chain and its environment



Any supply chain is made of several companies living in an environment that gives opportunities and constraints



Cotton cycle and textile chain

Seeds

Sowing

**Culture (IPM, fertilizers,
Pest control ...)**

Picking

Ginning

Spinning ← **Other fibers**

Weaving

Knitting

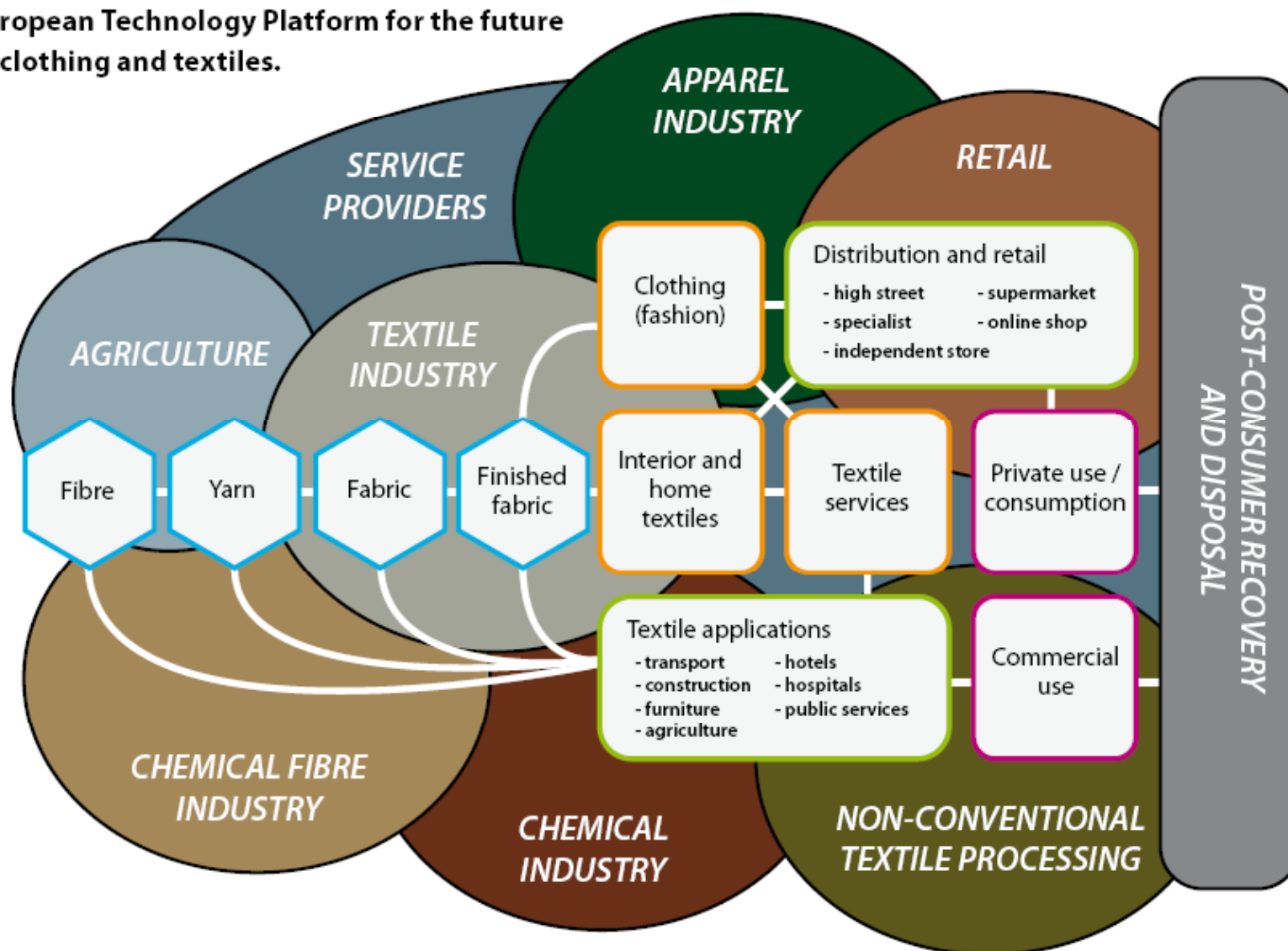
Dyeing / Finishing / Clothing

Marketing / selling

Upcycling – Recycling - Downcycling

Textile supply chain

European Technology Platform for the future of clothing and textiles.





“Main education profiles”

MECHANICS

CHEMISTRY

GESTION

ACCOUNTING

MANAGEMENT

LITERATURE / LAW

...



INITIAL TRAINING

Matching education and industry needs

MECHANICS

CHEMISTRY

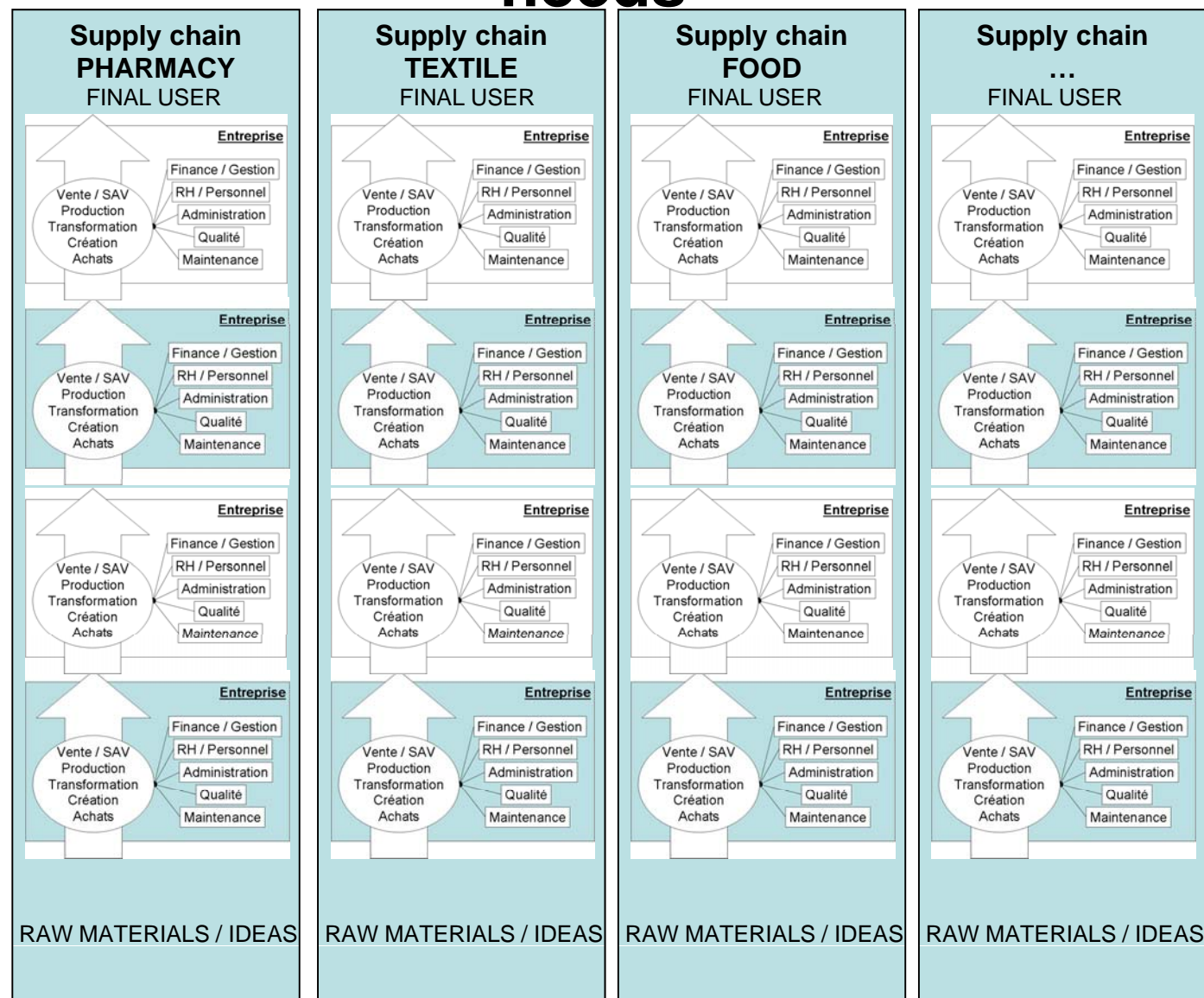
GESTION

ACCOUNTING

MANAGEMENT

LITTERATURE / LAW

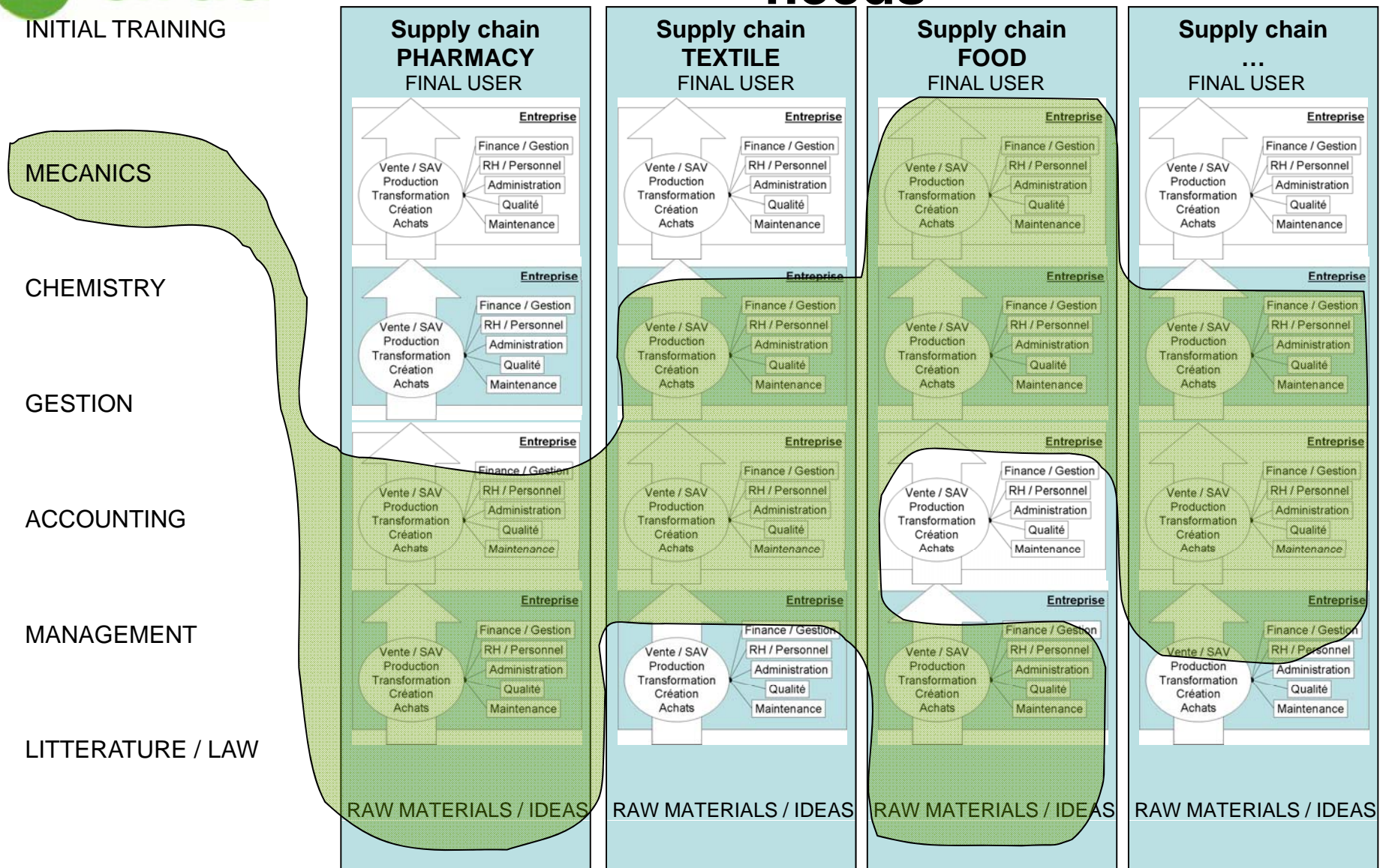
...





INITIAL TRAINING

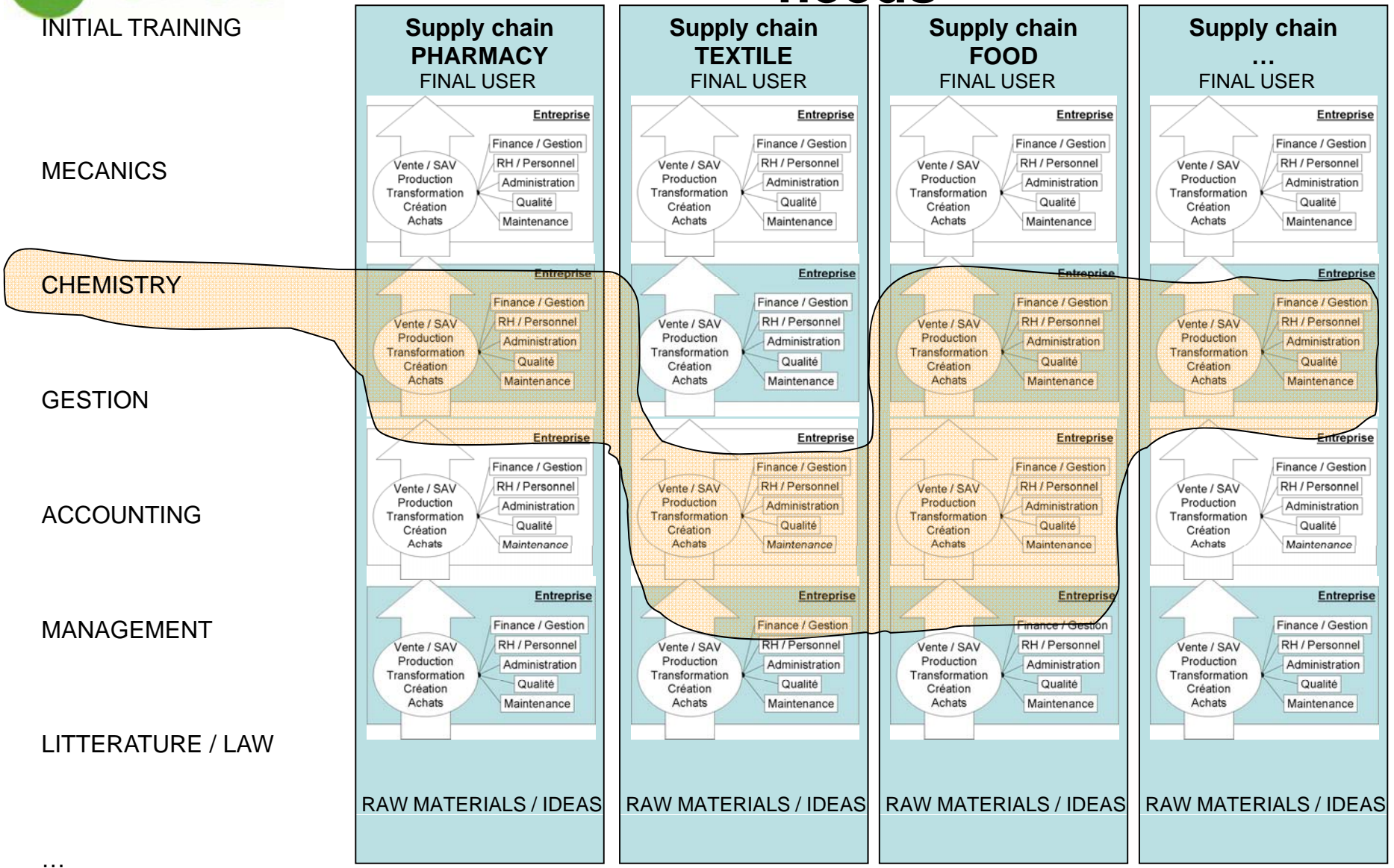
Matching education and industry needs



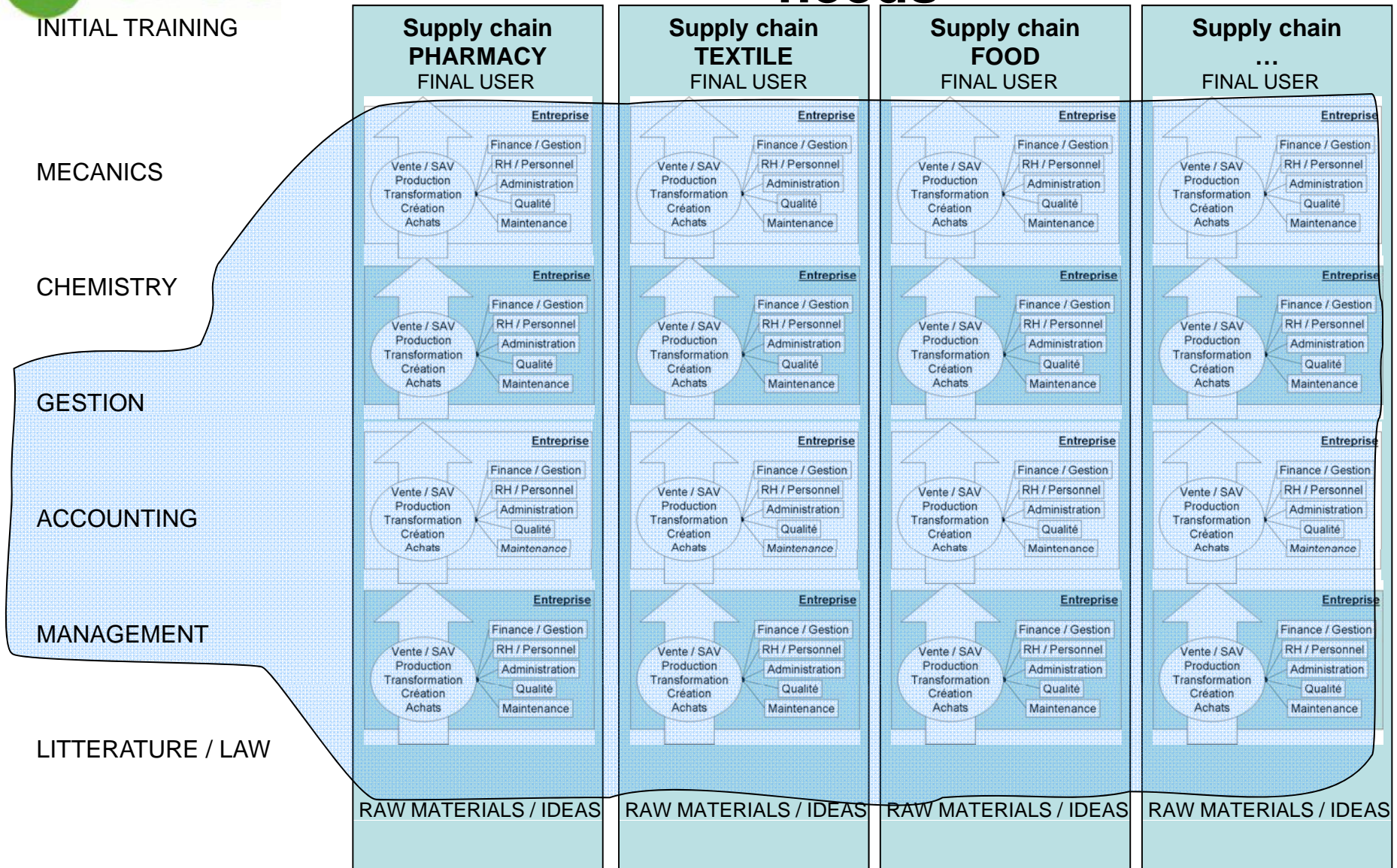
http://www.nadoz.org/11_Formation_Initiale/Formation/ListeFormations.asp



Matching education and industry needs



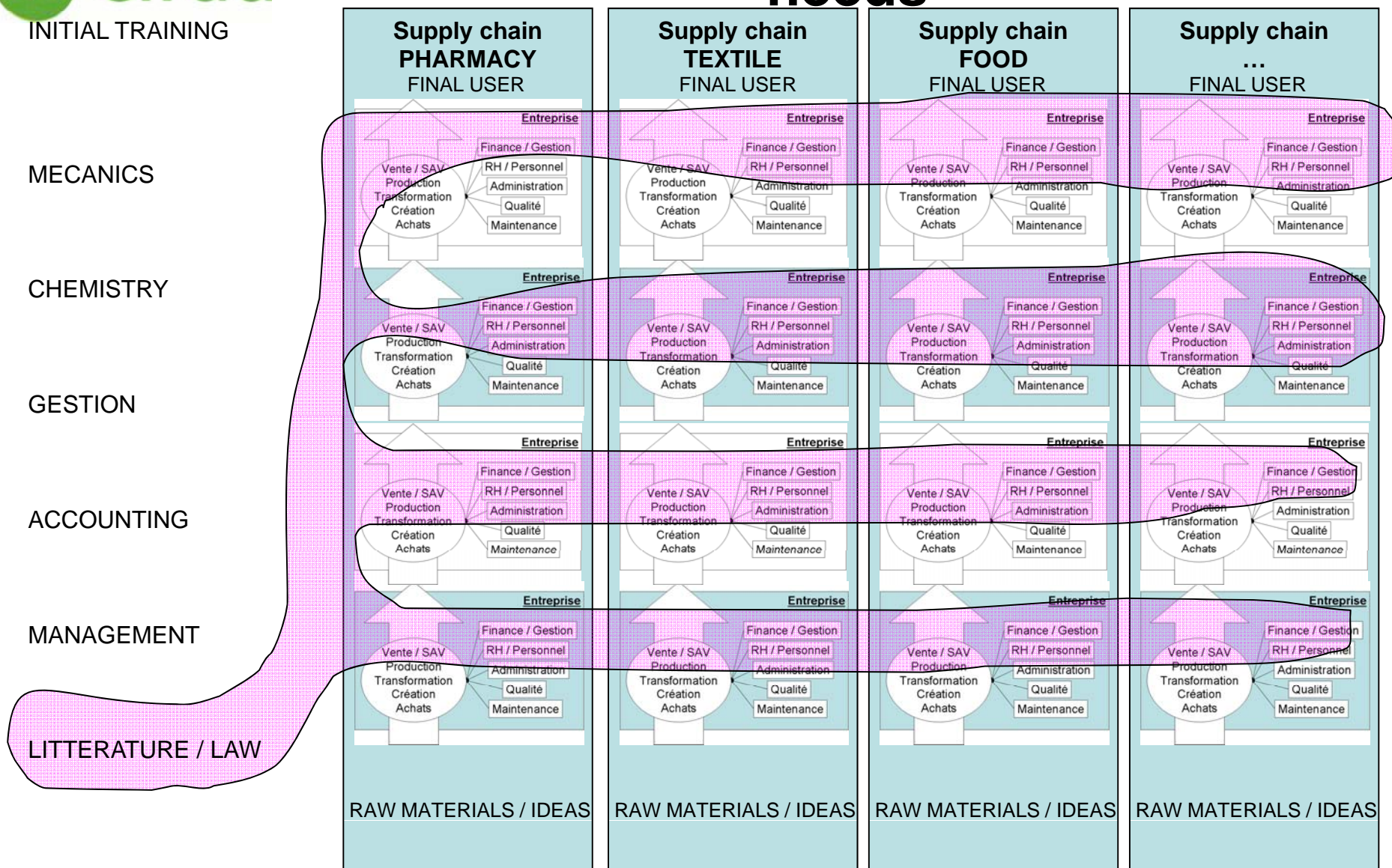
Matching education and industry needs





INITIAL TRAINING

Matching education and industry needs





Partial conclusion

- Progress in education in the “main education profiles” will occur for any supply chain / industry
- Progress will also benefit to textile and cotton industries ...

- Progress in education in the “main education profiles” will occur for any supply chain
 - Progress will also benefit to textile and cotton industries ...
- ... as long as textile and cotton industries “appeal” well trained persons !



The question becomes...

-
- How to locate skilled and well trained persons?



The question becomes...

-
- How to locate skilled and well trained persons?
 - How to induce “passion” for textile and cotton?



The question becomes...

-
- How to locate skilled and well trained persons?
 - How to induce “passion” for textile and cotton?
 - How to increase the ‘**attractivity**’ of the textile and cotton industries?



The question becomes...

-
- How to locate skilled and well trained persons?
 - How to induce “passion” for textile and cotton?
 - How to increase the ‘**attractivity**’ of the textile and cotton industries?
 - How to promote cotton in the mind of our politics and/or managers so that, from now and permanently, they will vote motivating basic and applied research and development budgets coming to education efforts?



Observation and possible consequences

- Evolution in the existing products
- Number of products/goods increases
- Concentration of the companies => fewer companies



Observation and possible consequences

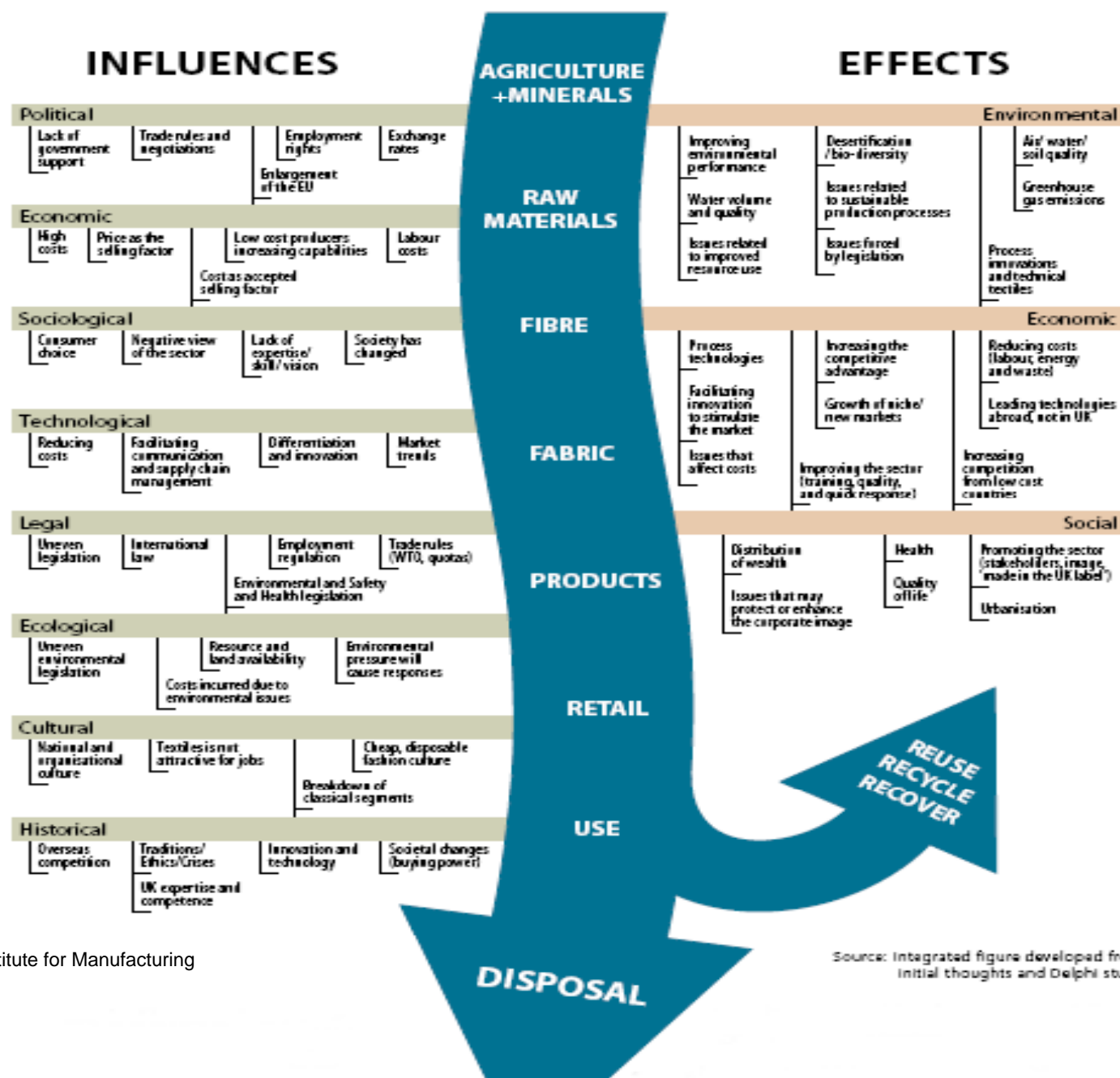
- Evolution in the existing products
 - Number of products/goods increases
 - Concentration of the companies => fewer companies
- ➔ Concentration of the research and education means
- Decrease of the number of researchers and of educating persons and educated persons
 - Risk of lower cross-fertilization between disciplines/markets
 - Risk of lower attractiveness



Challenge: « market » our efforts at all steps



Challenge: « market » our efforts at all steps

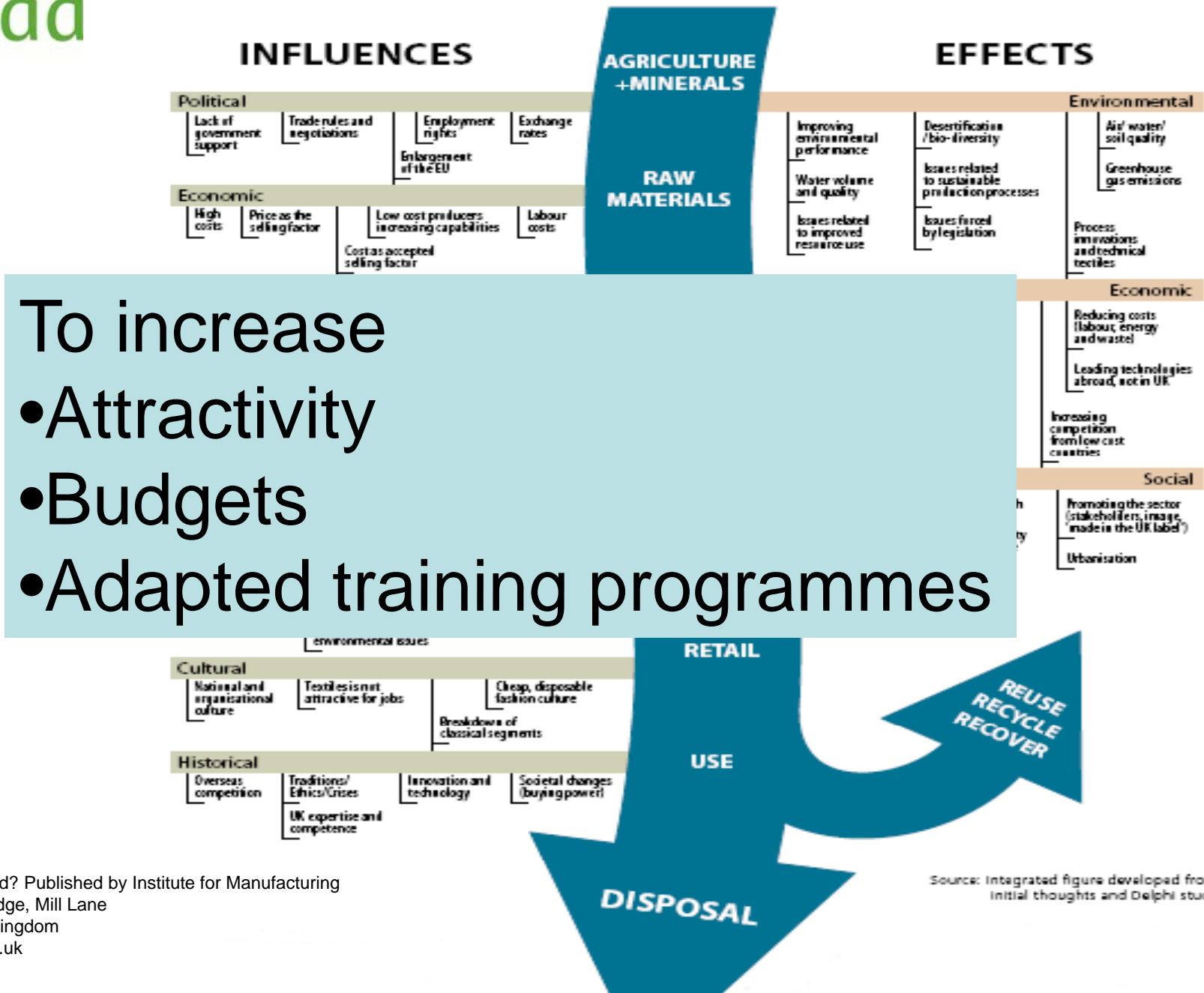


Source : Well dressed? Published by Institute for Manufacturing
 University of Cambridge, Mill Lane
 Cambridge, United Kingdom
 www.ifm.eng.cam.ac.uk
 ISBN 1-902546-52-0

Source: Integrated figure developed from
 initial thoughts and Delphi study

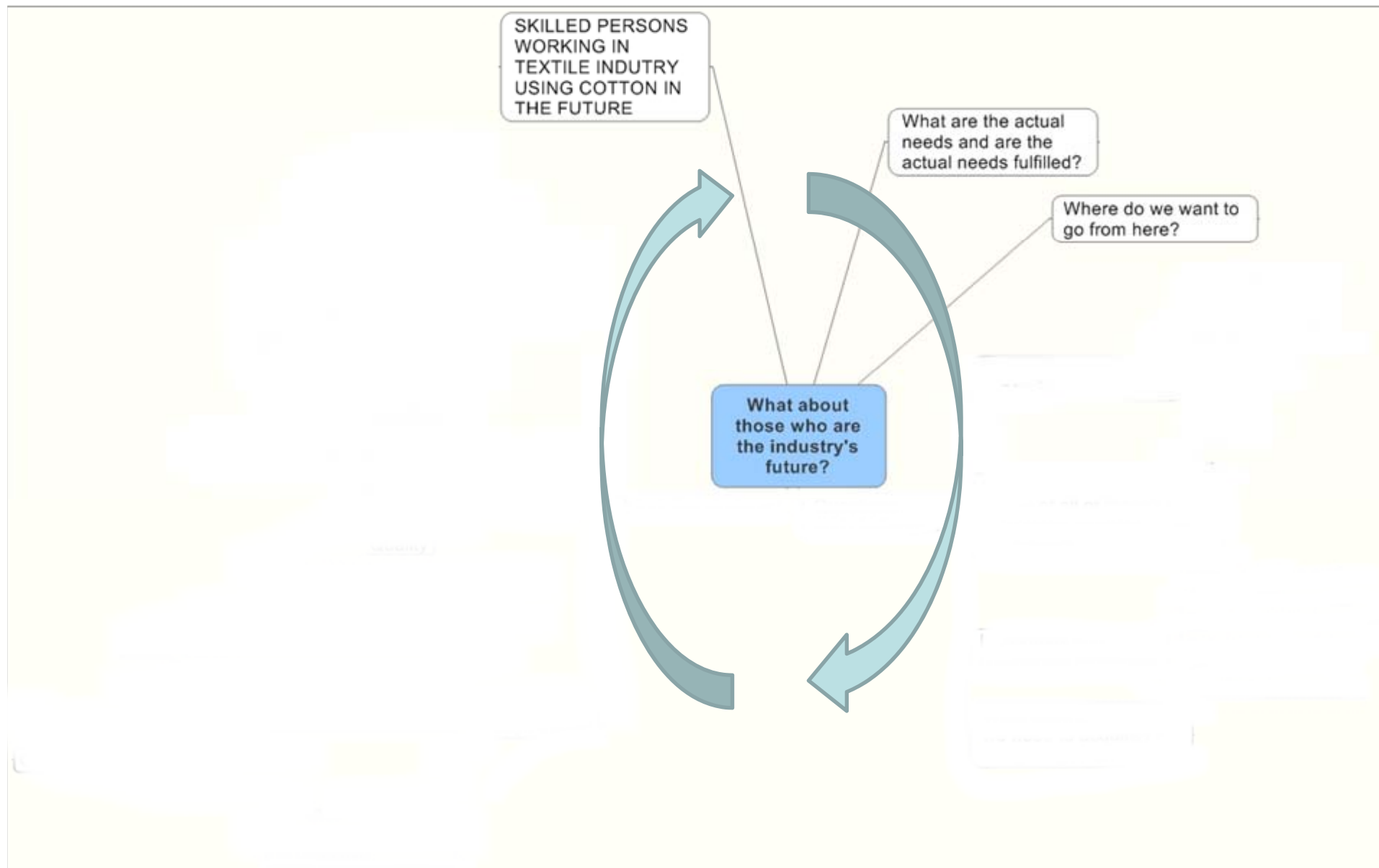


Challenge: « market » our efforts at all steps



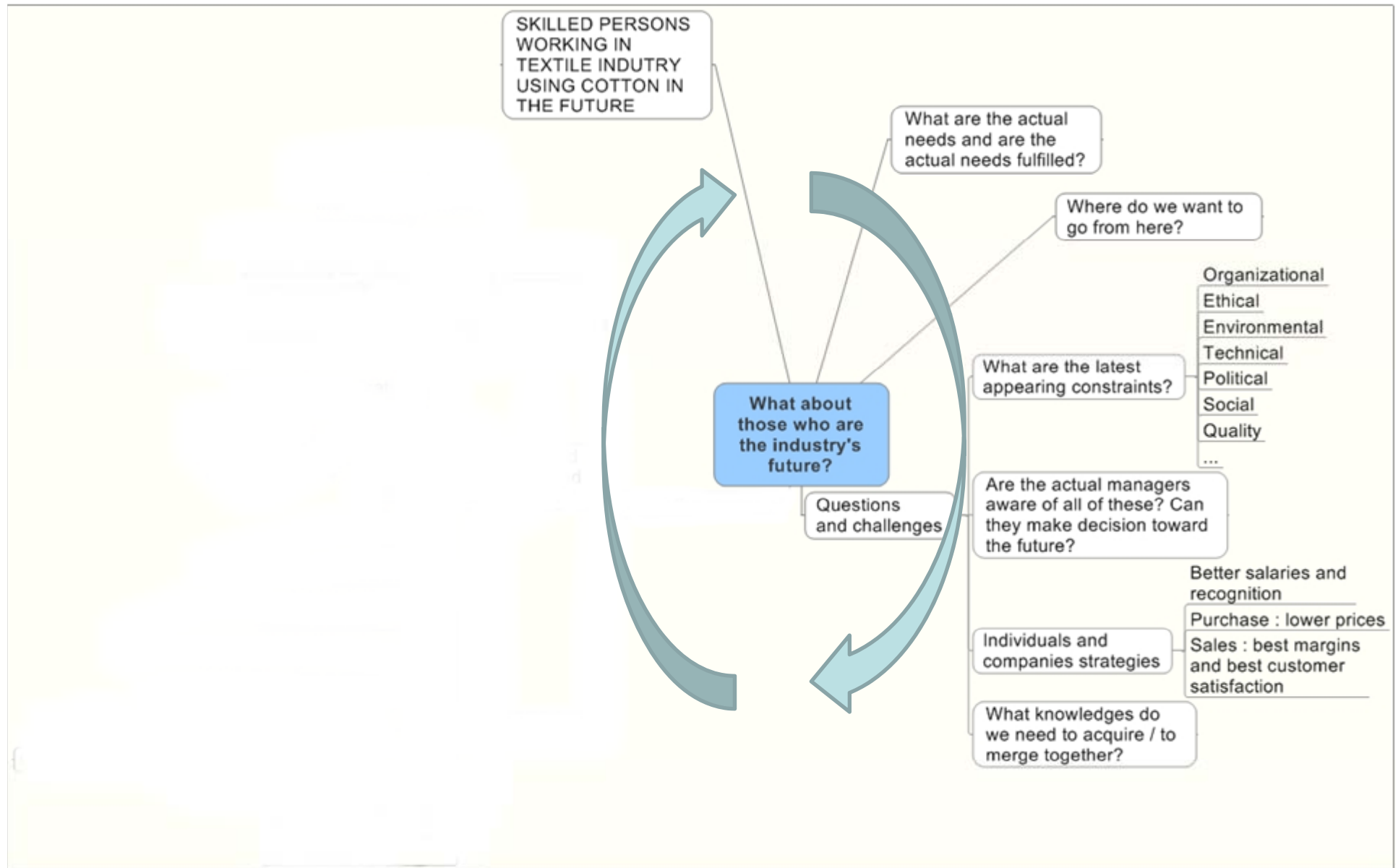
Some possible steps to go ...

Summary



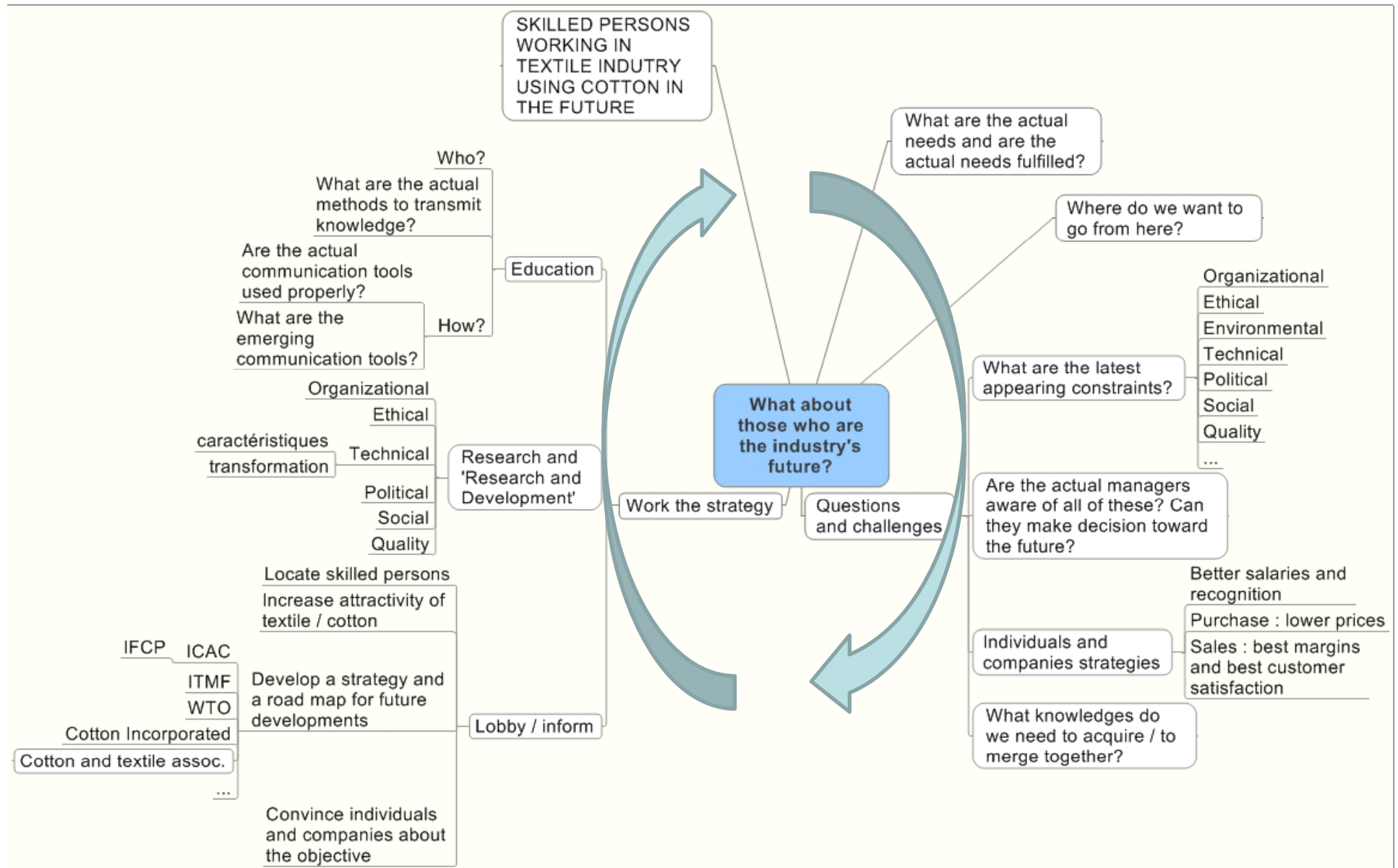
Some possible steps to go ...

Summary



Some possible steps to go ...

Summary



Thank you for your attention

Buenos Aires, Argentina
September 7, 2011



Jean-Paul GOURLOT
UPR 102, LTC